

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problems Mailbox.**

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

Term	Documents
380/47.USPT.	323
380/47S	0
380/47.USPT.	323
(380/47).USPT.	323

**Database:**

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L19

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** Sunday, June 01, 2003   [Printable Copy](#)   [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set

*DB=USPT; PLUR=YES; OP=ADJ*

<u>L19</u>	380/47	323	<u>L19</u>
<u>L18</u>	380/46	1111	<u>L18</u>
<u>L17</u>	380/45	391	<u>L17</u>
<u>L16</u>	380/44	862	<u>L16</u>
<u>L15</u>	380/286	162	<u>L15</u>
<u>L14</u>	380/285	164	<u>L14</u>
<u>L13</u>	380/2852	0	<u>L13</u>
<u>L12</u>	380/284	103	<u>L12</u>
<u>L11</u>	380/283	234	<u>L11</u>
<u>L10</u>	380/282	168	<u>L10</u>
<u>L9</u>	380/281	201	<u>L9</u>
<u>L8</u>	80/281	1	<u>L8</u>
<u>L7</u>	380/281	201	<u>L7</u>
<u>L6</u>	380/280	62	<u>L6</u>
<u>L5</u>	380/279	157	<u>L5</u>
<u>L4</u>	380/278	234	<u>L4</u>
<u>L3</u>	380/277	452	<u>L3</u>
<u>L2</u>	380/277L1	0	<u>L2</u>
<u>L1</u>	((380/0277)!.CCLS. )	0	<u>L1</u>

*scan*

*read*

*read*

END OF SEARCH HISTORY

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

Term	Documents
705/80.USPT.	106
705/80S	0
705/80.USPT.	106
(705/80).USPT.	106

**Database:**

[US Patents Full-Text Database](#)  
[US Pre-Grant Publication Full-Text Database](#)  
[JPO Abstracts Database](#)  
[EPO Abstracts Database](#)  
[Derwent World Patents Index](#)  
[IBM Technical Disclosure Bulletins](#)

**Search:**

L51

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History**
**DATE: Sunday, June 01, 2003**
[Printable Copy](#)
[Create Case](#)
**Set Name** **Query**

side by side

**Hit Count** **Set Name**

result set

*DB=USPT; PLUR=YES; OP=ADJ*

<u>L51</u>	705/80	106	<u>L51</u>
<u>L50</u>	705/79	87	<u>L50</u>
<u>L49</u>	705/78	129	<u>L49</u>
<u>L48</u>	705/77	118	<u>L48</u>
<u>L47</u>	705/76	173	<u>L47</u>
<u>L46</u>	705/75	267	<u>L46</u>
<u>L45</u>	705/74	81	<u>L45</u>
<u>L44</u>	705/73	56	<u>L44</u>
<u>L43</u>	705/72	139	<u>L43</u>
<u>L42</u>	705/71	100	<u>L42</u>

*read*

<u>L41</u>	705/70	46	<u>L41</u>
<u>L40</u>	705/70	46	<u>L40</u>
<u>L39</u>	705/69	99	<u>L39</u>
<u>L38</u>	705/68	54	<u>L38</u>
<u>L37</u>	705/68	54	<u>L37</u>
<u>L36</u>	705/67	213	<u>L36</u>
<u>L35</u>	705/66	87	<u>L35</u>
<u>L34</u>	705/65	221	<u>L34</u>
<u>L33</u>	705/64	175	<u>L33</u>
<u>L32</u>	705/63	38	<u>L32</u>
<u>L31</u>	705/62	109	<u>L31</u>
<u>L30</u>	705/61	46	<u>L30</u>
<u>L29</u>	705/60	131	<u>L29</u>
<u>L28</u>	705/59	249	<u>L28</u>
<u>L27</u>	705/58	159	<u>L27</u>
<u>L26</u>	705/56	139	<u>L26</u>
<u>L25</u>	705/55	107	<u>L25</u>
<u>L24</u>	705/54	206	<u>L24</u>
<u>L23</u>	705/53	158	<u>L23</u>
<u>L22</u>	705/52	275	<u>L22</u>
<u>L21</u>	705/51	432	<u>L21</u>
<u>L20</u>	705/50	114	<u>L20</u>
<u>L19</u>	380/47	323	<u>L19</u>
<u>L18</u>	380/46	1111	<u>L18</u>
<u>L17</u>	380/45	391	<u>L17</u>
<u>L16</u>	380/44	862	<u>L16</u>
<u>L15</u>	380/286	162	<u>L15</u>
<u>L14</u>	380/285	164	<u>L14</u>
<u>L13</u>	380/2852	0	<u>L13</u>
<u>L12</u>	380/284	103	<u>L12</u>
<u>L11</u>	380/283	234	<u>L11</u>
<u>L10</u>	380/282	168	<u>L10</u>
<u>L9</u>	380/281	201	<u>L9</u>
<u>L8</u>	80/281	1	<u>L8</u>
<u>L7</u>	380/281	201	<u>L7</u>
<u>L6</u>	380/280	62	<u>L6</u>
<u>L5</u>	380/279	157	<u>L5</u>
<u>L4</u>	380/278	234	<u>L4</u>
<u>L3</u>	380/277	452	<u>L3</u>
<u>L2</u>	380/277L1	0	<u>L2</u>
<u>L1</u>	((380/0277)!.CCLS. )	0	<u>L1</u>

*read*

END OF SEARCH HISTORY

[Home](#) | [Index](#) | [Browse](#) | [Contact](#) | [Intranet](#) | [Search](#)**Scientific and Technical Information Center****EIC3600 > Business Methods > Business-Cryptography**[Patents Home](#) | [Site Feedback](#)[Browse Books](#) | [Browse Articles](#) | [Selection Guidelines](#) | [Site Map](#) | [US Patent Classification](#) | [Search Panel](#) | [Firewall Authentication](#) |

## Business Cryptography

Class 705, Subclasses 50-80

*Having security or user identification provision (password entry, etc.). Subject matter includes an arrangement to prevent unauthorized use of or access to the cash register, or to identify the user of the cash register.*

Submit comments and suggestions to content manager: [Elizabeth Deal](#)

This page provides access to core NPL resources on Business-Cryptography in the following categories (★ represents highly recommended items):

[Databases](#) | [Digest](#) | [Books](#) | [Journals](#) | [Reference](#) | [Web Resources](#) | [Assignees](#)  
[Associations](#)

### Databases

[Mandatory Database List](#)[Thesaurus](#) of Business Cryptography Terms

- ★ [Dialog Toolkit](#) Interface (Novices - guided search of mandatory databases)
- ★ [Dialog Classic](#) Interface (Experienced users mandatory database search)

[More ...](#)

### Examiner's Digest/Articles/Conferences

Click [here](#) to see a listing of major articles.

### Books (available in EIC2100)

- ★ *Applied Cryptography: Protocols, Algorithms, and Source Code in C*. 2nd Edition. Bruce Schneier. John Wiley & Sons. 1995.  
(Classic work on cryptography.)  
QA76.9 .A25 835 1996    [Table of Contents](#)

- ★ *Web Security & Commerce* (O'Reilly Nutshell). Simson Garfinkel, Gene Spafford. O'Reilly & Associates. 1997.  
(Security issues of doing business on the Web. Covers digital certificates, server security, and digital payments along with other topics.)  
TK5105.59 .G37 1997    [Table of Contents](#)

[More ...](#)

### Journals

★ [Cipher](#) (electronic newsletter)

★ [Crypto-Gram Newsletter](#)

(Back issue available full text online. User can subscribe to a free email edition of Crypto-Gram at this site.)

[More ...](#)

### Reference Tools

[Business Directories](#)

[Dictionaries/Glossaries/Other](#)

[Thesaurus of Business Cryptography Terms](#)

[Tutorials](#)

### Web Resources

★ [Cryptography-Standards and Protocols](#)

(Links to HTTP2, PEM, PGP, SHEN, SHTTP, SKIP, SSH, S/MIME)

★ [SEMPER \(Secure Electronic Marketplace for Europe\)](#)

(Libraries of Links Electronic Commerce, Payment Systems and Security. Extensive collection of links on payment systems such as e-cash and e-check.)

[More ...](#)

### Business-Cryptography Assignees

Click [here](#) to see the list of assignees ranked in descending order by number of patents.

Click [here](#) to see an alphabetical list of assignees.

### Associations & Corporations

★ [ICSA.Net](#)

Promotes the improvement and deployment of security technology, provides access to news, events, white papers and security magazine. Formerly the National Computer Security Association.

[More ...](#)

Call EIC3600 (306-5783) or [E-mail](#) for help

To report technical problems, click [here](#)

[Intranet Home](#) | [Index](#) | [Resources](#) | [Contacts](#) | [Internet](#) | [Search](#) | [Firewall](#) | [Web Services](#)

Last Modified: Thursday, March 07, 2002 09:12:22



## ① Search Full-Text Databases-Group 1

Search strategy being run automatically for you:

s# and (UNCYPHER? OR UNENCYIPHER? OR UNENCIPHER? OR UNCIPHER? OR ENCYP  
OR UNCRYPT? OR DECRYPT? OR DECYPHER? OR UNENCOD? OR ENCIPHER? OR KE`  
?(1W)PAIR? ? OR SECRET()(CODE? ? OR CODING))

s# and (CYPHER? OR UNENCRYPT? OR DESCRAMBL? OR UNSCRAMBL? OR CIPHER? (   
DECRYPT? OR DECIPHER? OR (SECRET OR PUBLIC OR PRIVATE)(1W)KEY? ? OR  
SECURE(2W)(TRANSACTION? OR PROCESS???) OR CRYPT? OR SCRAMBL? OR ENCRYPT  
s# or s#

 Make sure your cursor is placed fully to the left in each search box.

Search  
Term(s)

Author

e.g. ward j? or ward, j?

Years Before and Including

Searching ...

**LOG OFF****Search results:** 128 titles

Titles on this page:

---

**Search Report**

Database Name	Database Number
ABI/INFORM	15
COMPUTER DATABASE	275
NEW PRODUCT	
ANNMNT	621
NEWSLETTER DB	636
TRADE&INDUSTRY	148
PROMT (90-PRESENT)	16
PROMT (1972-1989)	160
Set	Description
S1	((key(1N)distribu?) AND (device))
S2	PY=((1970:1999))
S3	S1 and S2
S4	S3
	s4 and (UNCYPHER? OR UNENCYPHER? OR UNENCIPHER? OR UNCIPHER? OR ENCYPHER? OR UNCRYPT? OR DECRYPT? OR DECYPHER? OR UNENCOD? OR ENCIPHER? OR KEY? ?(1W)PAIR? ? OR SECRET()(CODE? ? OR CODING))
S5	
	s4 and (CYPHER? OR UNENCRYPT? OR DESCRAMBL? OR UNSCRAMBL? OR CIPHER? OR DECRYPT? OR DECIPHER? OR (SECRET OR PUBLIC OR PRIVATE)(1W)KEY? ? OR SECURE(2W)(TRANSACTION? OR PROCESS???) OR CRYPT? OR SCRAMBL? OR ENCRYPT?)
S6	
S7	s5 or s6
S8	RD
S9	SORT /ALL/pd,a

---

- ☐ 1 Sytek's New Data Encryption System Strengthens Local Network Security - Oct 13, 1986 -  
ABI/INFORM® - US\$3.40

- ☐ 2 **Ups and downs seen for PBX-KTS market. (articles abstracted from Northern Business Information reports)** - Nov 1 - 1986 - Gale Group Trade and Industry Database™ - US\$3.45
  - ☐ 3 **DATOTEK INTRODUCES THE DLE-7000 DATA LINK ENCRYPTOR** - April 2 - 1987 - Gale Group New Product Announcements/Plus® - US\$3.45
  - ☐ 4 **RACAL-MILGO INTRODUCES INTEGRAL DATA ENCRYPTOR** - August 13 - 1987 - Gale Group New Product Announcements/Plus® - US\$3.45
  - ☐ 5 **EUROCRYPT '88 CONFERENCE** - August - 1988 - Gale Group Newsletter Database™ - US\$3.45
  - ☐ 6 **Five ways to secure your network.** - Sept - 1988 - Gale Group Computer Database™ - US\$3.45
  - ☐ 7 **CYLINK INTRODUCES NEW PUBLIC KEY I.C. FOR SECURE DATA AND COMMUNICATIONS NETWORKS** - Sept 15 - 1988 - Gale Group New Product Announcements/Plus® - US\$3.45
  - ☐ 8 **RACAL-MILGO ANNOUNCES INDUSTRY'S ONLY FEDERAL STANDARD 1027 KEY CENTER CRYPTOGRAPHY** - Oct 10 - 1988 - Gale Group New Product Announcements/Plus® - US\$3.45
  - ☐ 9 **The Air Force Electronic Key Distribution System** - January, 1989 - Gale Group PROMT® - US\$3.45
  - ☐ 10 **CIPHER X 800 DATA ENCRYPTION DEVICE** - Jan 9 - 1989 - Gale Group New Product Announcements/Plus® - US\$3.45
- 

Display more titles: [1-10](#) [11-20](#) [21-30](#) [31-40](#) [41-50](#) [\[Next 50\]](#)

select  
all none

Titles on this page:

Display Checked

Display All

To display full records, click a title or use the checkboxes and display buttons

Searching ...

[LOG OFF](#)Search  
results: **19** titlesselect  
all none

Titles on this page:

Display Checked

Display All

---

**Search Report****Database Name            Database Number**

AMERICAN BANKER 625  
 BOND BUYER 626  
 BUSINESS & INDUS 9  
 BUSINESS WIRE 810  
 DIALOG FIN & BANK 267  
 KR/T BUS NEWS 608  
 MATHSCI 239  
 MCGRAW-HILL PUBS 624  
 PR NEWSWIRE 813  
 SAN JOSE MERCURY 634  
 GLOBAL REPORTER 20

**Set****Description**

S1 ((key(1N)distribut?) AND (memor?))  
 S2 S1  
 S3 s2 and (UNCYPHER? OR UNENCYIPHER? OR  
 UNENCIPHER? OR UNCIPHER? OR  
 ENCYPHER? OR UNCRYPT? OR DECRYPT?  
 OR DECYPHER? OR UNENCOD? OR  
 ENCIPHER? OR KEY? ?(1W)PAIR? ? OR  
 SECRET()(CODE? ? OR CODING))  
 S4 s2 and (CYPHER? OR UNENCRYPT? OR  
 DESCramBL? OR UNSCRAMBL? OR  
 CIPHER? OR DECRYPT? OR DECIPHER? OR  
 (SECRET OR PUBLIC OR  
 PRIVATE)(1W)KEY? ? OR  
 SECURE(2W)(TRANSACTION? OR PROCESS???)  
 OR CRYPT? OR SCRAMBL? OR ENCRYPT?)  
 S5 s3 or s4  
 S6 RD

- 
- ☐ 1 **Making its mark: a variety of high-profile projects headed up by CableLabs are enabling the cable industry to put its proverbial brand on broadband.** - March 2003 - Business & Industry® - US\$3.40
- ☐ 2 **Building networks to stay competitive** - August 21, 1995 - Business & Industry® - US\$3.40

- ☐ 3 **SCHLUMBERGER - Schlumberger launches industry's most secure smart card; Cryptoflex delivers exceptional speed and security for authorizing transactions** - December 05, 1996 - Business Wire - *US\$2.95*
  - ☐ 4 **Business Wire Recap** - August 02, 1995 - Business Wire - *US\$2.95*
  - ☐ 5 **Smart Cards Fail to Flourish in U.S.** - April 02, 1999 - Knight-Ridder/Tribune Business News - *US\$2.95*
  - ☐ 6 **Quantum key distribution and quantum authentication based on entangled state.** - 2001 - MathSci@ - *US\$1.60*
  - ☐ 7 **Algorithms---ESA '99.** - **Proceedings of the 7th Annual European Symposium held in Prague, July 16--18, 1999. Edited by Jaroslav Nešetřil.** - 1999 - MathSci@ - *US\$1.60*
  - ☐ 8 **Advances in cryptology---EUROCRYPT '94.** - **Proceedings of the Workshop on Theory and Application of Cryptographic Techniques held in Perugia, May 9--12, 1994. Edited by Alfredo De Santis.** - 1995 - MathSci@ - *US\$1.60*
  - ☐ 9 **Cryptography and coding.** - **Proceedings of the Fifth IMA Conference held in Cirencester, December 18--20, 1995. Edited by Colin Boyd.** - 1995 - MathSci@ - *US\$1.60*
  - ☐ 10 **Cryptography.** - **Theory and practice.** - 1995 - MathSci@ - *US\$1.60*
- 

Display more titles: 1-10 11-19

select  
all none

Titles on this page:

Display Checked

Display All

To display full records, click a title or use the checkboxes and display buttons